AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. 11. (Canceled)
- 12. (Currently Amended) The single-component polyorganosiloxane (POS) composition as defined by Claim 11, wherein the amount of curing catalyst I is such that: A single-component polyorganosiloxane composition (POS) which is stable on storage in the absence of moisture and which crosslinks in the presence of water to give a non-yellowing and adherent elastomer, said composition comprising:
 - (i) at least one crosslinkable linear polyorganopolysiloxane A of formula:

$$(R^{2})_{a}[R^{fo}]_{3-a}Si-Y = \begin{cases} R^{1} \\ Si-O \\ Si-Y-Si(R^{2})_{a}[R^{fo}]_{3-a} \\ R^{1} \\ R^{1} \end{cases}$$

in which:

the substituents R¹, which may be identical or different, are each a saturated or unsaturated, substituted or unsubstituted, aliphatic, cyclanic or aromatic, C₁ to C₁₃ monovalent hydrocarbon radical;

the substituents R², which may be identical or different, are each a saturated or unsaturated, substituted or unsubstituted, aliphatic, cyclanic or aromatic, C₁ to C₁₃ monovalent hydrocarbon radical;

the functionalization substituents R^{fo}, which may be identical or different, each represent:

an iminoxy residue of formula:

$$(R^3)_2C=N-O-$$

wherein R^3 independently is a linear or branched C_1 to C_8 alkyl radical, a C_3 to C_8 cycloalkyl radical or a C_2 - C_8 alkenyl radical;

an alkoxy residue of formula:

$$R^4O(CH_2CH_2O)_b$$

wherein R^4 independently is a linear or branched C_1 to C_8 alkyl radical or a C_3 to C_8 cycloalkyl radical and b =0 or 1;

an acyloxy residue of formula:

R⁵ is a saturated or unsaturated, substituted or unsubstituted, aliphatic, cyclanic or aromatic, C₁ to C₁₃ monovalent hydrocarbon radical;

an epoxy residue of formula:

$$(H)_{b'}(R^5)_{2-b'}C=C(-O-)R^5$$

wherein R⁵ is as defined above and b'=0, 1 or 2;

each symbol Y represents an oxygen atom or a divalent hydrocarbon radical;

n has a value sufficient to confer, on the POS A, a dynamic viscosity at 25°C.

ranging from 1,000 to 1,000,000 mPa•s;

a is zero or 1;

- (2i) optionally, at least one polyorganosiloxane resin B functionalized by at least one radical R^{fo} as defined above and having in its structure, at least two different siloxyl units selected from among those of formulae $(R^1)_3SiO_{1/2}$ (M unit), $(R^1)_2SiO_{2/2}$ (D unit), $R^1SiO_{3/2}$ (T unit) and SiO_2 (Q unit), at least one of these units being a T or Q unit, the radicals R^1 , which may be identical or different, are as defined above with respect to the formula (I), said resin having a content by weight of functional radicals R^{fo} ranging from 0.1 to 10%, with the proviso that a portion of the radicals R^1 are radicals R^{fo} ;
 - (3i) optionally, at least one crosslinking agent C of formula:

$$(R^2)_a Si[R^{fo}]_{4-a}$$
 (II)

wherein R², R^{fo} and a are as defined above;

- (4i) optionally, a residual amount of the functionalization catalyst D in the presence of which the preparation of the POS(s) A and of the optional resin(s) B which are functionalized by R^{fo} occurs;
 - (5i) optionally, at least one primary aliphatic C₁ to C₃ alcohol E;
- (6i) optionally, at least one unreactive linear polydiorganosiloxane F which is not functionalized by R^{fo} and which has the formula:

$$(R^{1})_{3}SiO = \begin{bmatrix} R^{1} \\ Si \\ R^{1} \end{bmatrix}$$

$$= M$$

in which:

the substituents R¹, which may be identical or different, are as defined above for the polyorganosiloxane A of formula (I);

m has a value sufficient to confer, on the polymer of formula (III), a dynamic viscosity at 25°C. ranging from 10 to 200,000 mPa•s;

- (7i) at least one inorganic filler G;
- (8i) optionally, at least one auxiliary agent H;
- (9i) an effective amount of a crosslinking/curing catalyst I; said composition further comprising the following parameters (α), (β) and (γ):
- (α) the curing catalyst I comprises the combination of at least one organic derivative I1 of a metal M1 selected from among titanium, zirconium and mixtures

thereof with at least one organic derivative 12 of a metal M2 selected from among zinc, aluminum, boron, bismuth and mixtures thereof;

wherein the amount of curing catalyst I is such that:

- (β) the number of μ g.at (microgram atoms) of the metals M1 + M2 introduced into 1 g of single-component composition comprising all the ingredients (i) to (8i) is within the range from 25 to 55;
 - (γ) the ratio:

$$\frac{number\ of\ \mu g.at\ of\ M2}{total\ number\ of\ \mu g.at\ of\ M1+M2}x100$$

is within the range from 10 to 45%.

13. (Currently Amended) The single-component polyorganosiloxane (POS) composition as defined by Claim 11 12, wherein:

the POS A is a polymer of formula (I) in which the symbol Y represents an oxygen atom;

the functionalization substituents R^{fo} of the ingredients A, B and C are of alkoxy type and correspond to the formula $R^4O(CH_2CH_2O)_b$ — as defined above; and the crosslinking/curing catalyst I comprises a combination:

of at least one organic derivative I1 of a metal M1 selected from the group consisting of:

monomers I1.1 of formula:

$$[L]_cM1[(OCH_2CH_2)_dOR^7]_{4-c} \qquad (V)$$

in which:

the symbol L represents a δ donor ligand, with or without π participation;

[c] c represents 0, 1, 2, 3 or 4;

M1 is a metal selected from among titanium, zirconium and mixtures thereof;

the substituents R^7 , which may be identical or different, are each a linear or branched C_1 to C_{12} alkyl radical;

[d] d represents zero, 1 or 2;

with the proviso that, when the symbol $[\underline{d}]$ \underline{d} represents zero, the alkyl radical R^7 has from 2 to 12 carbon atoms and, when the symbol $[\underline{d}]$ \underline{d} represents 1 or 2, the alkyl radical R^7 has from 1 to 4 carbon atoms;

polymers I1.2 resulting from the partial hydrolysis of the monomers of formula (V) in which the symbol [\underline{c}] \underline{c} is at most equal to 3 and the symbol R^7 is as defined above with the symbol [\underline{d}] \underline{d} representing zero; with

at least one organic derivative I2 of a metal M2 selected from the group consisting of:

the polycarboxylates I2.1 of formula:

$$M2(R^8COO)_v$$
 (VI)

the metal alkoxides and chelates I2.2 of formula:

$$(L)_eM2(OR^9)_{v-e}$$
 (VII)

in which formulae:

the substituents R^8 , which may be identical or different, are each a linear or branched C_1 to C_{20} alkyl radical;

the symbol R⁹ is as defined above in the formula (V) for R⁷;

the symbol L represents a C donor ligand, with or without $\boldsymbol{\pi}$ participation;

M2 is a metal of valency $[\underline{v}]$ \underline{v} selected from among zinc, aluminum, bismuth, boron and their mixtures;

 $[\underline{e}]$ \underline{e} represents a number ranging from zero to $[\underline{v}]$ \underline{v} .

14. (Currently Amended) The single-component polyorganosiloxane (POS) composition as defined by Claim 44 12, wherein the substituents R¹ of the polymers POS A functionalized by R^{fo}, of the optional resins B functionalized by R^{fo} and of the optional non-functionalized polymers F are selected from the group consisting of:

alkyl and haloalkyl radicals having from 1 to 13 carbon atoms,

cycloalkyl and halocycloalkyl radicals having from 5 to 13 carbon atoms,

alkenyl radicals having from 2 to 8 carbon atoms,

mononuclear aryl and haloaryl radicals having from 6 to 13 carbon atoms, and

cyanoalkyl radicals, the alkyl moieties of which have from 2 to 3 carbon

atoms.

15. (Currently Amended) The single-component polyorganosiloxane (POS) composition as defined by Claim 44 12, comprising a crosslinking silane C carrying

the functionalization radicals R^{fo} : $Si(OC_2H_5)_4$, $CH_3Si(OCH_3)_3$, $CH_3Si(OC_2H_5)_3$, $(C_2H_5O)_3Si(OCH_3)$, $(CH_2=CH)Si(OCH_3)_3$ or $(CH_2=CH)Si(OC_2H_5)_3$.

16. (Currently Amended) A process for the preparation of the single-component polyorganosiloxane (POS) composition as defined by Claim 11 12, carried out in apparatus, operating batchwise or continuously, whereby:

intimately mixing, with the exclusion of moisture:

in a stage 1, the following constituents: \underline{a} precursor POS A' or A" of the POS A functionalized by R^{fo} , \underline{a} precursor resin B' or B" (optional) of the resin POS B functionalized by R^{fo} , silane, optionally olefinic, carrying the functional groups R^{fo} (which can be the silane C), functionalization catalyst D, alcohol E (optional) and non-functionalized and unreactive POS F (optional);

then, in a stage 2, the reaction mixture from stage 1 supplemented by the addition of the constituents G, H (optional), F (optional) and I; and

discharging the volatile materials present at various points over the course of the process:

during the abovementioned stage 1 and/or during the abovementioned stage 2 and/or in a final stage 3 after stage 2.

17. (Currently Amended) The process as defined by Claim 16, wherein the hydroxylated precursor A' of the POS A functionalized by R^{fo} at the chain ends is an α, ω -hydroxylated polydiorganosiloxane of formula:

(A')
$$HO = \begin{bmatrix} R^1 \\ Si \\ R^1 \end{bmatrix} = \begin{pmatrix} I \\ R \end{pmatrix}$$

wherein R^1 and $[\underline{n}]$ \underline{n} being as defined in the formula (I).

- 18. (Previously Presented) The process as defined by Claim 16, wherein the hydroxylated precursor B' of the optional resin POS B functionalized by R^{fo} corresponds to the above definition for B, except that a portion of the radicals R¹ are OH groups.
- 19. (Previously Presented) The process as defined by Claim 16, including a functionalization catalyst D selected from the group consisting of the following compounds:

potassium acetate,

various inorganic oxides,

carbamates,

lithium hydroxide, sodium hydroxide or potassium hydroxide.

20. (Currently Amended) A non-yellowing elastomer capable of adhering to various substrates and obtained by crosslinking and curing the single-component silicone mastic composition as claimed in Claim 41 12.